

Amended Claims

- 58
917
1. Reinforced areal implant, comprising
 - a net-type basic structure having a pore size in the range 1.5 mm to 4.0 mm and
 - textile strengthening elements whose bending resistance, measured in a three-point flexibility test at a support length of 20 mm, is in the range 0.015 N/mm to 0.4 N/mm, wherein the strengthening elements form a net-type strengthening structure with a pore size in the range 5 mm to 30 mm.
 2. Implant according to claim 1, characterized in that the pore size of the strengthening structure is a multiple of the pore size of the basic structure.
 3. Implant according to claim 1 or 2, characterized in that the basic structure comprises knitware.
 4. Implant according to claim 3, characterized in that the strengthening elements are laid or knitted into the basic structure.
 5. Implant according to one of claims 1 to 4, characterized in that the basic structure comprises non-absorbable material or very slowly absorbable material that retains at least 50% of its initial tear-strength after 180 days in-vivo.

- 15 -

6. Implant according to claim 5, characterized in that the basic structure comprises multi-filament yarn made of polypropylene.
7. Implant according to one of claims 1 to 6, characterized in that the basic structure comprises absorbable multi-filament yarn.
8. Implant according to one of claims 1 to 7, characterized in that the basic structure has at least one of the components selected from the following group: yarn of poly-p-dioxanone, yarn of a copolymer of L-lactide and glycolide in the ratio 10:90, yarn of a copolymer of L-lactide and glycolide in the ratio 95:5, yarn of a copolymer of L-lactide and glycolide in a different ratio.
9. Implant according to one of claims 1 to 8, characterized in that the strengthening elements comprise at least one of the components selected from the following group: pure mono-filaments, twisted mono-filaments, twisted multi-filament yarns, composite multi-filament yarns.
10. Implant according to claim 9, characterized in that the strengthening elements comprise at least one of the components selected from the following group: mono-filaments of polypropylene, multi-filament yarns of polypropylene, mono-filaments of poly-p-dioxanone, multi-filament yarns of

- 16 -

a copolymer of L-lactide and glycolide in the ratio 10:90,
yarns of poly-p-dioxanone.

11. Implant according to one of claims 1 to 10, characterized in that at least part of the strengthening elements has a color different from that of the basic structure.